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TI Biologically active material and process for its preparation

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✓ DT Patent

LA Czech

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	CZ 283073	B6	19971217	CZ 1992-3295	19921103
AB	The prepn. of bioactive ossifying material suitable for bone implants in reconstructive surgery is described. The prepn. contains Ca phosphate and/or Ca fluorophosphate particles 0.1-0.6 mm mixed with atelocollagen I in mass ratios of 1.5:1 to 50:1. Atelocollagen I can be prepd. by enzymic hydrolysis of bovine tendons. The prepn. can further contain 0.01-5.0% hyaluronic acid or its salts (related to material dry matter), 1-20% bone morphogenetic proteins extd. from bovine bones, and adjuvants components (blood, blood plasma, artificial body fluids). During prepn. the components are homogenized together. The formed ppt. is formed into desired implant shape or dried and powd. The material is sterilized by gamma-radiation. Before use the powd. material is reconstituted with <u>physiol. fluids</u> and formed into desired shapes. The biol. compatibility was tested in dogs with exptl. tibial bone injury.				